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Consultants and Engineers
g, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	3 & 4
Date	23.06.2022 to 24.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1723.8	1723.8	8.62	91.38	80 - 100	
26.5	3545.2	5269.0	26.35	73.65	55 - 90	
9.5	4313.9	9582.9	47.91	52.09	35 - 65	
4.75	1870.9	11453.8	57.27	42.73	25 - 50	
2.36	5993.4	17447.2	87.24	12.76	10 - 20	
0.850	985.7	18432.9	92.16	7.84	2 - 10	
0.425	918.9	19351.8	96.76	3.24	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2354.4	2354.4	11.77	88.23	80 - 100	
26.5	3242.2	5596.6	27.98	72.02	55 - 90	
9.5	4965.1	10561.7	52.81	47.19	35 - 65	
4.75	1668.0	12229.7	61.15	38.85	25 - 50	
2.36	5344.8	17574.5	87.87	12.13	10 - 20	
0.850	912.5	18487.0	92.44	7.56	2 - 10	
0.425	1473.5	19960.5	99.80	0.20	0 - 5	

Note:

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For Sapience Consultants and Engineers,

Authorized Signature

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜೆ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜ.ಜ.ಎಂ.ವಿ
ಬೆಂಗಳೂರು-೫೬೦೦೭೩

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	5 & 6
Date	23.06.2022 to 24.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1803.2	1803.2	9.02	90.98	80 - 100	
26.5	3013.5	4816.7	24.08	75.92	55 - 90	
9.5	5150.8	9967.5	49.84	50.16	35 - 65	
4.75	2481.6	12449.1	62.25	37.75	25 - 50	
2.36	4958.0	17407.1	87.04	12.96	10 - 20	
0.850	1485.5	18892.6	94.46	5.54	2 - 10	
0.425	1020.4	19913.0	99.57	0.43	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2311.8	2311.8	11.56	88.44	80 - 100	
26.5	2981.8	5293.6	26.47	73.53	55 - 90	
9.5	4369.1	9662.7	48.31	51.69	35 - 65	
4.75	2100.5	11763.2	58.82	41.18	25 - 50	
2.36	5720.0	17483.2	87.42	12.58	10 - 20	
0.850	1337.0	18820.2	94.10	5.90	2 - 10	
0.425	554.9	19375.1	96.88	3.12	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	7 & 8
Date	27.06.2022 to 28.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1951.6	1951.6	9.76	90.24	80 - 100	
26.5	2481.5	4433.1	22.17	77.83	55 - 90	
9.5	6275.4	10708.5	53.54	46.46	35 - 65	
4.75	1172.4	11880.9	59.40	40.6	25 - 50	
2.36	5703.5	17584.4	87.92	12.08	10 - 20	
0.850	1436.9	19021.3	95.11	4.89	2 - 10	
0.425	746.8	19768.1	98.84	1.16	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1787.9	1787.9	8.94	91.06	80 - 100	
26.5	3945.4	5733.3	28.67	71.33	55 - 90	
9.5	3679.8	9413.1	47.07	52.93	35 - 65	
4.75	2842.5	12255.6	61.28	38.72	25 - 50	
2.36	5302.1	17557.7	87.79	12.21	10 - 20	
0.850	1342.5	18900.2	94.50	5.50	2 - 10	
0.425	926.2	19826.4	99.13	0.87	0 - 5	

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ಬಿಬಿಎಂಪಿ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	09 & 10
Date	27.06.2022 to 28.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2373.1	2373.1	11.87	88.13	80 - 100	
26.5	2979.1	5352.2	26.76	73.24	55 - 90	
9.5	5222.6	10574.8	52.87	47.13	35 - 65	
4.75	1172.5	11747.3	58.74	41.26	25 - 50	
2.36	5774.4	17521.7	87.61	12.39	10 - 20	
0.850	1469.7	18991.4	94.96	5.04	2 - 10	
0.425	713.9	19705.3	98.53	1.47	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1696.6	1696.6	8.48	91.52	80 - 100	
26.5	2880.3	4576.9	22.88	77.12	55 - 90	
9.5	5360.8	9937.7	49.69	50.31	35 - 65	
4.75	2375.7	12313.4	61.57	38.43	25 - 50	
2.36	5204.5	17517.9	87.59	12.41	10 - 20	
0.850	1225.4	18743.3	93.72	6.28	2 - 10	
0.425	1148.2	19891.5	99.46	0.54	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	11 & 12
Date	28.06.2022 to 29.06.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1919.6	1919.6	9.60	90.4	80 - 100	
26.5	3655.7	5575.3	27.88	72.12	55 - 90	
9.5	4792.4	10367.7	51.84	48.16	35 - 65	
4.75	2292.2	12659.9	63.30	36.7	25 - 50	
2.36	4824.7	17484.6	87.42	12.58	10 - 20	
0.850	1294.1	18778.7	93.89	6.11	2 - 10	
0.425	620.9	19399.6	97.00	3	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1690.7	1690.7	8.45	91.55	80 - 100	
26.5	2735.5	4426.2	22.13	77.87	55 - 90	
9.5	6227.1	10653.3	53.27	46.73	35 - 65	
4.75	1438.5	12091.8	60.46	39.54	25 - 50	
2.36	5401.4	17493.2	87.47	12.53	10 - 20	
0.850	1539.4	19032.6	95.16	4.84	2 - 10	
0.425	511.2	19543.8	97.72	2.28	0 - 5	

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SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Authorized Signature

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	13 & 14
Date	28.06.2022 to 29.06.202

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2196.5	2196.5	10.98	89.02	80 - 100	
26.5	3156.8	5353.3	26.77	73.23	55 - 90	
9.5	4646.2	9999.5	50.00	50	35 - 65	
4.75	1999.8	11999.3	60.00	40	25 - 50	
2.36	5557.3	17556.6	87.78	12.22	10 - 20	
0.850	946.7	18503.3	92.52	7.48	2 - 10	
0.425	945.6	19448.9	97.24	2.76	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2400.5	2400.5	12.00	88.00	80 - 100	
26.5	3286.3	5686.8	28.43	71.57	55 - 90	
9.5	4309.9	9996.7	49.98	50.02	35 - 65	
4.75	2497.5	12494.2	62.47	37.53	25 - 50	
2.36	5021.3	17515.5	87.58	12.42	10 - 20	
0.850	1422.5	18938.0	94.69	5.31	2 - 10	
0.425	1024.4	19962.4	99.81	0.19	0 - 5	

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Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	15 & 16
Date	30.06.2022 to 1.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2557.7	2557.7	12.79	87.21	80 - 100	
26.5	2729.9	5287.6	26.44	73.56	55 - 90	
9.5	4469.4	9757.0	48.79	51.21	35 - 65	
4.75	3019.5	12776.5	63.88	36.12	25 - 50	
2.36	4710.0	17486.5	87.43	12.57	10 - 20	
0.850	1500.2	18986.7	94.93	5.07	2 - 10	
0.425	973.5	19960.2	99.80	0.2	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2255.5	2255.5	11.28	88.72	80 - 100	
26.5	2860.4	5115.9	25.58	74.42	55 - 90	
9.5	4656.4	9772.3	48.86	51.14	35 - 65	
4.75	1970.2	11742.5	58.71	41.29	25 - 50	
2.36	5822.5	17565.0	87.83	12.17	10 - 20	
0.850	1206.2	18771.2	93.86	6.14	2 - 10	
0.425	523.9	19295.1	96.48	3.52	0 - 5	

Note:

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For Sapience Consultants and Engineers

Authorized Signature

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ಕ್ಷೇ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಕೆ.ಎಂ.ಪಿ
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Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

GRADATION FOR GSB (Grading V)

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	17 & 18
Date	30.06.2022 to 1.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2382.0	2382.0	11.91	88.09	80 - 100	
26.5	2136.6	4518.6	22.59	77.41	55 - 90	
9.5	5408.3	9926.9	49.63	50.37	35 - 65	
4.75	1726.4	11653.3	58.27	41.73	25 - 50	
2.36	5871.4	17524.7	87.62	12.38	10 - 20	
0.850	1433.6	18958.3	94.79	5.21	2 - 10	
0.425	594.7	19553.0	97.77	2.23	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1721.1	1721.1	8.61	91.39	80 - 100	
26.5	3740.2	5461.3	27.31	72.69	55 - 90	
9.5	3994.4	9455.7	47.28	52.72	35 - 65	
4.75	2316.8	11772.5	58.86	41.14	25 - 50	
2.36	5791.3	17563.8	87.82	12.18	10 - 20	
0.850	888.2	18452.0	92.26	7.74	2 - 10	
0.425	1519.8	19971.8	99.86	0.14	0 - 5	

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	19 & 20
Date	01.07.2022 to 02.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2448.1	2448.1	12.24	87.76	80 - 100	
26.5	2006.5	4454.6	22.27	77.73	55 - 90	
9.5	5460.4	9915.0	49.58	50.42	35 - 65	
4.75	2608.3	12523.3	62.62	37.38	25 - 50	
2.36	4959.2	17482.5	87.41	12.59	10 - 20	
0.850	1501.5	18984.0	94.92	5.08	2 - 10	
0.425	423.1	19407.1	97.04	2.96	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2563.3	2563.3	12.82	87.18	80 - 100	
26.5	2799.3	5362.6	26.81	73.19	55 - 90	
9.5	4570.7	9933.3	49.67	50.33	35 - 65	
4.75	1663.6	11596.9	57.98	42.02	25 - 50	
2.36	5827.9	17424.8	87.12	12.88	10 - 20	
0.850	1033.7	18458.5	92.29	7.71	2 - 10	
0.425	770.9	19229.4	96.15	3.85	0 - 5	

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GRADATION FOR GSB (Grading V)

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 25/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	21 & 22
Date	01.07.2022 to 02.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1706.4	1706.4	8.53	91.47	80 - 100	
26.5	3583.7	5290.1	26.45	73.55	55 - 90	
9.5	4970.1	10260.2	51.30	48.7	35 - 65	
4.75	1826.9	12087.1	60.44	39.56	25 - 50	
2.36	5377.1	17464.2	87.32	12.68	10 - 20	
0.850	1289.4	18753.6	93.77	6.23	2 - 10	
0.425	874.3	19627.9	98.14	1.86	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2495.0	2495.0	12.48	87.52	80 - 100	
26.5	2935.9	5430.9	27.15	72.85	55 - 90	
9.5	4863.7	10294.6	51.47	48.53	35 - 65	
4.75	2089.6	12384.2	61.92	38.08	25 - 50	
2.36	5174.6	17558.8	87.79	12.21	10 - 20	
0.850	944.1	18502.9	92.51	7.49	2 - 10	
0.425	1216.6	19719.5	98.60	1.40	0 - 5	

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Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	05.07.2022 and 07.07.2022

Sl. No	Description	Test #1	Test #2	Test #3	IS Specifications
1	Liquid Limit, %	22.82	22	21.19	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,

SAPIENCE CONSULTANTS & ENGINEERS Bangalore-59

Authorized Signature

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Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	11.07.2022 and 13.07.2022

Sl. No	Description	Test #4	Test #5	Test #6	IS Specifications
1	Liquid Limit, %	22.11	22.99	22.73	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2720(Part 5):1985
Source / Location	Plant
Sample No.	1, 2 and 3
Date	11.07.2022 and 13.07.2022

Sl. No	Description	Test #7	Test #8	Test #9	IS Specifications
1	Liquid Limit, %	22.06	21.54	22.28	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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SAPIENCE CONSULTANTS Bangalore-59

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GRADATION FOR GSB (Grading V)

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Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	03.07.2022 to 04.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	1790.8	1790.8	8.95	91.05	80 - 100	
26.5	3121.6	4912.4	24.56	75.44	55 - 90	
9.5	4673.8	9586.2	47.93	52.07	35 - 65	
4.75	2607.5	12193.7	60.97	39.03	25 - 50	
2.36	5241.3	17435.0	87.18	12.82	10 - 20	
0.850	1279.4	18714.4	93.57	6.43	2 - 10	
0.425	1167.9	19882.3	99.41	0.59	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2086.8	2086.8	10.43	89.57	80 - 100	
26.5	3056.5	5143.3	25.72	74.28	55 - 90	
9.5	5465.7	10609.0	53.05	46.95	35 - 65	
4.75	2028.1	12637.1	63.19	36.81	25 - 50	
2.36	4959.7	17596.8	87.98	12.02	10 - 20	
0.850	829.7	18426.5	92.13	7.87	2 - 10	
0.425	901.3	19327.8	96.64	3.36	0 - 5	

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Job No.:	SCE/PMC/QCR-4/BBMP/DH/2022-23/58 Dt. 29/10/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Mix Type	Granular Sub Base
Material	Coarse Aggregates
Test Method	IS 2386(Part 1) 1963 (RA 2011)
Source / Location	Plant
Sample No.	1 & 2
Date	05.07.2022 and 06.07.2022

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2105.1	2105.1	10.53	89.47	80 - 100	
26.5	2759.3	4864.4	24.32	75.68	55 - 90	
9.5	5442.5	10306.9	51.53	48.47	35 - 65	
4.75	1563.6	11870.5	59.35	40.65	25 - 50	
2.36	5546.5	17417.0	87.09	12.91	10 - 20	
0.850	1021.4	18438.4	92.19	7.81	2 - 10	
0.425	1137.6	19576.0	97.88	2.12	0 - 5	

Total Weight of Sample (gms) : **20000.00**

Sieve Size (mm)	Weight Retained in gms	Cumulative Weight Retained (gm)	Cummulative % Retained	Cumulative % Passing	Requirement as per MORTH table 500.17	Remarks
75	0	0	0	100	100	Gradation satisfies the MORTH 5th Revision Table 400-1 Specification for Granular Sub Base
53	2352.9	2352.9	11.76	88.24	80 - 100	
26.5	2923.1	5276.0	26.38	73.62	55 - 90	
9.5	5314.4	10590.4	52.95	47.05	35 - 65	
4.75	1828.1	12418.5	62.09	37.91	25 - 50	
2.36	5094.4	17512.9	87.56	12.44	10 - 20	
0.850	947.2	18460.1	92.30	7.70	2 - 10	
0.425	1040.1	19500.2	97.50	2.50	0 - 5	

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